















STANDARD CURB DROP INLET

36" - 48" PIPE: MAXIMUM DEPTH (H) - 8"

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

19, ALL REINFORCING BARS TO BE #5.

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE SHEET 2 OF 2

104.16

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SPENCER M. FRANCIS

1. STONAL

Bowman Consulting Group, Ltd.

SUBMITTAL DATE

05/13/2015

REVISION

PROGRESS SET

BID SET

FINAL BID SET

DESIGNED

DF, JW, MT

CHECKED

SF, JJ

SCALE

H

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DATE

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SHEET NO.

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LSEE NOTE 3

CONCRETE DI-7 DI-7A DI-7B

(CU. YDS.) | NONE | 1.211 | 2.148 |

17. GRATE BARS TO BE PARALLEL TO DITCH FLOW.

MINIMUM DEPTH 2'-0" 2'-3/4" 2'-6l/2" 3'-1" 3'-7l/2" 4'-2" 4'-8l/2" CONCRETE CUBIC YARDS .947 1.045 1.143 1.339 1.535 1.731 1.927

42" 5'-21/2" 4'-11" INCREMENT PER FOOT OF ADDITIONAL DEPTH (H) { = 0.362 CU. YDS. (12" - 36" PIPE) = 0.410 CU. YDS. (42" PIPE)

L2"X2"X¾"

L2½"X2½"y"/"

DETAIL A

STUD SHEAR L21/2"X21/2"X/4"
CONNECTOR -

#5X5'-0" BARS (12 REQ'D.)

B - 2/2"

SECTION B-B

GRATE A

GRATE MAXIMUM DIMENSION
TYPE A B
I 11/2" 3"
III 1" 1"

BOTH SLOPES FLAT

ONE STEEP SLOPE-ONE FLAT SLOPE

BAR SPACING CHART

DETAILS OF CONCRETE COVER AND GRATE

PIPE | 12" | 15" | 18" | 24" | 30" | 36" | 42"

STANDARD MEDIAN DROP INLET

12" TO 42" PIPE

VIRGINIA DEPARTMENT OF TRANSPORTATION

2. GRATE B IS TO BE UTILIZED IN LOCATIONS NORMALLY SUBJECT TO TRAFFIC.

4. CONCRETE COVER AND GRATE ARE TO BE FURNISHED AS A SINGLE UNIT. OUTSIDE DIMENSIONS OF GRATE TO BE 3'-4" X 2'-11½" (GRATE A) OR 3'-4" X 2'-11½" (GRATE B).

5. ALTERNATE METHODS OF ANCHORING ANGLE IRON WILL BE ACCEPTABLE IF APPROVED BY THE ENGINEER.

GRATE AND COLLAR ARE TO BE GALVANIZED.

'. CONCRETE COVER MAY BE PRECAST OR CAST IN PLACE.

 CONCRETE TO BE CLASS A3 IF CAST IN PLACE. 4000 PSI IF PRECAST.). GRATE BARS TO BE PARALLEL TO DITCH FLOW.

© INLET

BOTH SLOPES STEEP

STANDARD MEDIAN DROP INLET

12" TO 42" PIPE

VIRGINIA DEPARTMENT OF TRANSPORTATION

13. PAVED DITCHES ARE TO BE TRANSITIONED TO MEET INLET GUTTER AS SHOWN IN STANDARD PG-2A.

DETAILS OF GUTTER AND

<u>NOTES</u>

DI-7 NO GUTTERS.
DI-7A NO GUTTER IN ONE DIRECTION.
DI-7B GUTTER IN BOTH DIRECTIONS.

. VARIABLE 2:1 OR FLATTER.

LONGITUDINAL SECTION (WHEN INLET IS LOCATED

ABOVE NORMAL DITCH GRADE)
SEE NOTE 8.

SPECIFICATION REFERENCE

. JOINTS BETWEEN GUTTERS AND CONCRETE COVEF ARE TO BE DOWELED WITH #4 X 8" SMOOTH RODS @ APPROX.12" C-C TO PREVENT SETTLE-MENT. IN LIEU OF DOWELS A 2" X 4" NOTCH MAY BE PROVIDED.

SEE STANDARD T-DI-3, 4 ALTERNATE DESIGN.

DITCH GRADE MUST BE ADJUSTED TO MEET DIFFERENCE IN ELEVATION. SEE LONGITUDINAL SECTION.

5. IF DEPTH (D) BECOMES LESS THEN 4", LENGTH OF WINGS ARE TO BE EXTENDED AS DIRECTED BY THE ENGINEER.

IF NORMAL DITCH GRADE IS TOO FLAT TO ALLOW FOR ADJUSTED GRADE TO INLET, A SPECIAL GUTTER DETAIL WILL BE REQUIRED ON PLANS.

METHOD OF PLACEMENT

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ROAD AND BRIDGE STANDARDS

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PROVIDE SAFETY SLABS WHEN SPECIFIED ON THE PLANS.

18" 3'-01/2" 2'-11"

21" 3'-3¾" 3'-2"

30" 4'-1/2" 3'-11"

33" 4'-4¾" 4'-2" 36" 4'-8" 4'-5"

1'-2" 3'-0" 1'-2"

PLAN VIEW (FROM PLANS)

SEE DETAIL A

SECTION A-A

APPROXIMATE QUANTITIES

CONCRETE REINFORCING STEEL

0.423 C. Y. 63 LBS.

SECTION A-A

TYPICAL ELEVATION SEE NOTE 3-1

APPROXIMATE QUANTITY FOR ONE CURTAIN WALL
MEASURED FROM BOTTOM OF GUTTER

0.241 CU. YDS.

ÎSEE NOTE 6

CONCRETE CLASS A3

VDOT

ROAD AND BRIDGE STANDARDS

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SPECIFICATION REFERENCE

DI-7, 7A, 7B

3'-7" 3'-5"